

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

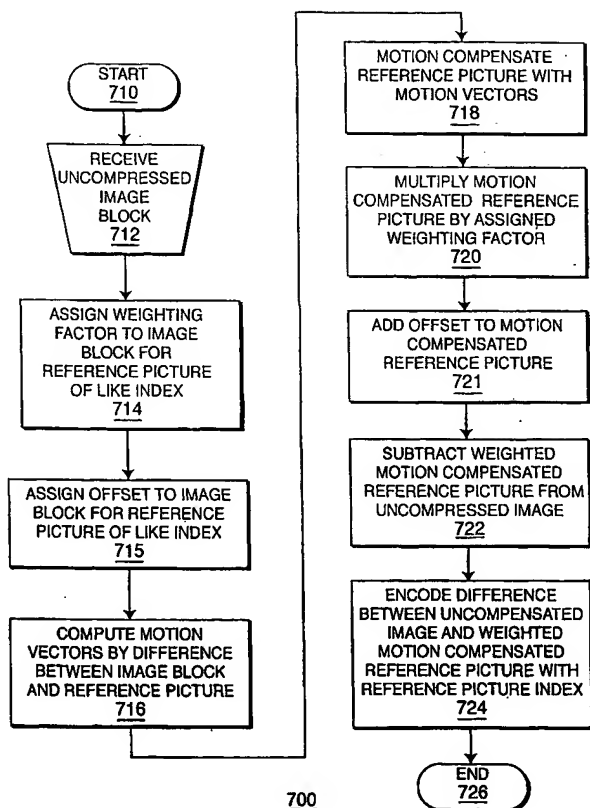
PCT

(10) International Publication Number
WO 2005/004492 A2

- (51) International Patent Classification⁷: **H04N 7/26** (US). **BOYCE, Jill, MacDonald** [US/US]; 3 Brandywine Court, Manalapan, New Jersey 07726 (US).
- (21) International Application Number: PCT/US2004/020028 (74) Agents: **TRIPOLI, Joseph, S. et al.**; c/o THOMSON Licensing Inc., Two Independence Way, Suite 200, Princeton, New Jersey 08540 (US).
- (22) International Filing Date: 23 June 2004 (23.06.2004)
- (25) Filing Language: English (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (26) Publication Language: English
- (30) Priority Data: 60/482,301 25 June 2003 (25.06.2003) US (71) Applicant (for all designated States except US): **THOMSON LICENSING S.A.** [FR/FR]; 46 Quai A. Le Gallo, F-92100 Boulogne-Billancourt (FR).
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR WEIGHTED PREDICTION ESTIMATION USING A DISPLACED FRAME DIFFERENTIAL



(57) Abstract: A video encoder (200, 300) and corresponding methods (600, 700) are provided for weighted prediction estimation using a displaced frame difference or differential, the encoder embodying a method (700) for receiving (712) a substantially uncompressed image block, assigning (714) a weighting factor for the image block corresponding to a particular reference picture having a corresponding index, computing (716) motion vectors corresponding to the difference between the image block and the particular reference picture, motion compensating (718) the particular reference picture in correspondence with the motion vectors, multiplying (720) the motion compensated reference picture by the assigned weighting factor to form a weighted motion compensated reference picture, subtracting (722) the weighted motion compensated reference picture from the substantially uncompressed image block, and encoding (724) a signal indicative of the difference between the substantially uncompressed image block and the weighted motion compensated reference picture along with the corresponding index of the particular reference picture.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

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